

SEQUENCE LISTING

<110> Gilmore Jr., Robert D
Johnson, Barbara JB

<120> RECOMBINANT P37/FlaA AS A DIAGNOSTIC REAGENT

<130> 97,429

<140> 09/004,395
<141> 1998-01-08

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attttctttt aggaagcaat gaggggtttt cttttgggtt tttattaagt gattcaagat	180
tttttatattc ttttttaaag aatggagttt attatgtaaa tctttcaaga gaattttatg	240
attcttttaa taatggtgat tataatgaat cttttgatgt taaggtcaat ctttttgcta	300
tgtcttaat aaaaacaatg cgctttaact atcctggtaa gataaaaaaag attattttc	360
tttgtgaagg gtgtatctt aaggagcaaa gttgataaat taaattttac taataaaaaat	420
aattaaaaaaa cgaaaatttt ataaaagatt tatataaag gagttggttt ac atg Met -22	475

aaa agg aaa gct aaa agt att tta ttt tta tta tcc act gtt ctt	523
Lys Arg Lys Ala Lys Ser Ile Leu Phe Phe Leu Leu Ser Thr Val Leu	
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ttt gct caa gag act gat gga tta gca gag ggt tct aaa agg gca gag	571
Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala Glu	
-5 1 5 10	

cct gga gaa tta gtc tta gat ttt gcc gag ctt gca aga gat cca agt	619
Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro Ser	
15 20 25	

tca act aga ctt gat ctt aca aat tat gtt gat tat gta tat tcg ggc Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser Gly 30	35	40	667
gct tct ggt att gtt aag ccg gaa gat atg gtt gta gat ctt ggg ata Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly Ile 45	50	55	715
aat aat tgg agc gtt tta ctt act cct tct gca agg ttg cag gct tac Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala Tyr 60	65	70	763
gtt aaa aat tca gtt gtc gcg ccc gct gtt aag agt gag tca aaa Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser Lys 80	85	90	811
agg tac gca ggt gat act att ttg ggg gta aga gtt ttg ttt cca agc Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro Ser 95	100	105	859
tat tct caa tca tct gct atg att atg cca cca ttt aaa att cct ttt Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro Phe 110	115	120	907
tat tca ggg gaa agt ggc aat caa ttt tta ggc aaa ggt ctt att gat Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile Asp 125	130	135	955
aac att aaa acc atg aaa gaa att aag gta tct gtt tat agt tta ggg Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu Gly 140	145	150	1003
tat gag ata gat ctt gag gtt tta ttt gaa gat atg aat ggc atg gaa Tyr Glu Ile Asp Leu Glu Val Ile Phe Glu Asp Met Asn Gly Met Glu 160	165	170	1051
tat gct tat tct atg ggt act tta aag ttt aaa ggg tgg gct gat tta Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp Leu 175	180	185	1099
att tgg tca aat cct aac tat att cct aat ata tca tcc aga att att Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile Ile 190	195	200	1147
aaa gac gat gtt cca aat tat cct ctt gct tca agt aaa atg aga ttt Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg Phe 205	210	215	1195
aag gct ttt aga gtt tca aag tca cac agt tca aaa gtt aaa aat ttc Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn Phe 220	225	230	1243
atc ttt tat gtt aaa gat tta aga gtt ctt tat gat aag cta agt gtt Ile Phe Tyr Val Lys Asp Leu Arg Val Leu Tyr Asp Lys Leu Ser Val 240	245	250	1291
tca ata gat tct gat att gac agt gag tct gta ttt aaa gtt tat gag Ser Ile Asp Ser Asp Ile Asp Ser Glu Ser Val Phe Lys Val Tyr Glu 255	260	265	1339
act agc gga act gaa tcc ctt cgt aaa tta aag gca cac gaa act ttt Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr Phe 270	275	280	1387
aaa aga gtt tta aag ctt aga gaa aaa att tct atc gct gaa ggc tct Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly Ser 285	290	295	1435

ttc caa aac ttt gta gaa aag att gag agt gaa aaa cct gaa gaa tca Phe Gln Asn Phe Val Glu Lys Ile Glu Ser Glu Lys Pro Glu Glu Ser 300 305 310 315	1483
tct ccg aaa aat tag gttaaaatataatgtaaag ctacctaaaa ggtttgcttt Ser Pro Lys Asn * 320	1538
acatattaaa ataataggaa atagtataatg gaaatattag atttggaaaa tgaagagctt ttaggagttt ttttgaaga agctcaaaat cttgtagata tccttgaaga gaatatt	1598 1655
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Leu Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala -5 1 5 10	Leu Phe Ala Gln Glu Thr Asp Gly Leu Ala Glu Gly Ser Lys Arg Ala -5 1 5 10
Glu Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro 15 20 25	Glu Pro Gly Glu Leu Val Leu Asp Phe Ala Glu Leu Ala Arg Asp Pro 15 20 25
Ser Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser 30 35 40	Ser Ser Thr Arg Leu Asp Leu Thr Asn Tyr Val Asp Tyr Val Tyr Ser 30 35 40
Gly Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly 45 50 55	Gly Ala Ser Gly Ile Val Lys Pro Glu Asp Met Val Val Asp Leu Gly 45 50 55
Ile Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala 60 65 70	Ile Asn Asn Trp Ser Val Leu Leu Thr Pro Ser Ala Arg Leu Gln Ala 60 65 70
Tyr Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser 75 80 85 90	Tyr Val Lys Asn Ser Val Val Ala Pro Ala Val Val Lys Ser Glu Ser 75 80 85 90
Lys Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro 95 100 105	Lys Arg Tyr Ala Gly Asp Thr Ile Leu Gly Val Arg Val Leu Phe Pro 95 100 105
Ser Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro 110 115 120	Ser Tyr Ser Gln Ser Ser Ala Met Ile Met Pro Pro Phe Lys Ile Pro 110 115 120
Phe Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile 125 130 135	Phe Tyr Ser Gly Glu Ser Gly Asn Gln Phe Leu Gly Lys Gly Leu Ile 125 130 135
Asp Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu 140 145 150	Asp Asn Ile Lys Thr Met Lys Glu Ile Lys Val Ser Val Tyr Ser Leu 140 145 150
Gly Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met 155 160 165 170	Gly Tyr Glu Ile Asp Leu Glu Val Leu Phe Glu Asp Met Asn Gly Met 155 160 165 170
Glu Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp 175 180 185	Glu Tyr Ala Tyr Ser Met Gly Thr Leu Lys Phe Lys Gly Trp Ala Asp 175 180 185
Ile Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile 190 195 200	Ile Ile Trp Ser Asn Pro Asn Tyr Ile Pro Asn Ile Ser Ser Arg Ile 190 195 200
Ile Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg 205 210 215	Ile Lys Asp Asp Val Pro Asn Tyr Pro Leu Ala Ser Ser Lys Met Arg 205 210 215
Phe Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn 220 225 230	Phe Lys Ala Phe Arg Val Ser Lys Ser His Ser Ser Lys Val Lys Asn 220 225 230
Phe Ile Phe Tyr Val Lys Asp Leu Arg Val Leu Tyr Asp Lys Leu Ser	

235	240	245	250
Val Ser Ile Asp Ser Asp Ile Asp Ser Glu Ser Val Phe Lys Val Tyr			
255	260	265	
Glu Thr Ser Gly Thr Glu Ser Leu Arg Lys Leu Lys Ala His Glu Thr			
270	275	280	
Phe Lys Arg Val Leu Lys Leu Arg Glu Lys Ile Ser Ile Ala Glu Gly			
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